ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.\$To/SB/08a (05-07) Approved for use through 11/30/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		10587371
	Filing Date		2006-07-26
INFORMATION DISCLOSURE	First Named Inventor	Ho Su	ing CHO
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1647
(Not for Submission under or of K 1.00)	Examiner Name	Shula	mith H. SHAFER
	Attorney Docket Numb	er	AMBX-0028.00US

					U.S.I	PATENTS			Remove		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue D)ate	Name of Pate of cited Docu	entee or Applicant iment	Pages,Columns,Lines wher Relevant Passages or Rele Figures Appear			
	1										
If you wisl	n to ac	⊔ dd additional U.S. Pate	nt citatio	n inform	ation pl	ease click the	Add button.		Add		
			U.S.P	ATENT	APPLIC	CATION PUBI	LICATIONS		Remove		
Examiner Cite Publication Number Kind Publication Number Code1 Date		Publica Date	ıtion	of cited Document				Lines where ges or Relev			
	1	20050170404		2005-08	3-04	CHO et al.					
If you wisl	h to ac	dd additional U.S. Publ	ished Ap	plication	citation	ո information բ	please click the Ade	d button	Add		
				FOREIG	ON PAT	ENT DOCUM	ENTS		Remove		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²		Kind Code ⁴	Publication Date	Name of Patentee Applicant of cited Document	e or V F	vhere Rel	or Relevant	T5
	1										
If you wisl	n to ac	 dd additional Foreign P	 atent Do	cument	citation	information pl	lease click the Add	button	Add		
			ИОИ	I-PATE	NT LITE	RATURE DO	CUMENTS		Remove		
Examiner Initials*	Cite No	Include name of the a (book, magazine, jour publisher, city and/or	nal, seria	al, symp	osium,	catalog, etc), (T5

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH \(S, S \) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 10587371 PT WHERE LINED THROUGH \(S, S \) Filing Date First Named Inventor Ho Sung CHO Art Unit 1647 Examiner Name Shulamith H. SHAFER Attorney Docket Number AMBX-0028.00US

1	ABUCHOWSKI, A. et al. "Cancer therapy with chemically modified enzymes. I. Antitumor properties of polyethylene glycol-asparaginase conjugates," Cancer Biochem Biophys. 1984 Jun;7(2):175-86	
2	ALTSCHUL, SF et al. "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nucleic Acids Res. 1997 Sep 1;25(17):3389-402	
3	ALTSCHUL, SF et al. "Basic local alignment search tool," J Mol Biol. 1990 Oct 5;215(3):403-10	
4	AMANN, E et al., "Vectors bearing a hybrid trp-lac promoter useful for regulated expression of cloned genes in Escherichia coli," Gene. 1983 Nov;25(2-3):167-78	
5	ANDERSON, JC et al., "Exploring the limits of codon and anticodon size," Chem Biol. 2002 Feb;9(2):237-44	
6	ANDRESZ, H et al. Abstract of "Chemische Synthese verzweigter Polysaccharide, 5; Kopplung von Oligosacchariden und Amylose an verschiedene Träger durch Hydrazonbindung," Makromol. Chem. 1978;179:301 Abstract	×
7	ARNOLD, FH. "Protein engineering for unusual environments," Curr Opin Biotechnol. 1993 Aug;4(4):450-5	
8	AZOULAY, M., et al. "Glutamine analogues as Potential Antimalarials," Eur. J. Med. Chem. (1991); 26(2):201-5	
9	BAIN, JD, et al. "Biosynthetic site-specific incorporation of a non-natural amino acid into a polypeptide," J. Am Chem Soc 1989;111(20):8013-8014	
10	BALLANCE, DJ et al., "Transformation of Aspergillus nidulans by the orotidine-5'-phosphate decarboxylase gene of Neurospora crassa," Biochem Biophys Res Commun. 1983 Apr 15;112(1):284-9	
11	BARANY, F. et al., "Genetic disease detection and DNA amplification using cloned thermostable ligase," Proc Natl Acad Sci U S A. 1991 Jan 1;88(1):189-93	

ALL REFERENCES CONSIDERED EX CEPT WHERE LINED THROUGH. /S.S./ INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 10587371 Filing Date First Named Inventor Ho Sung CHO Art Unit 1647 Examiner Name Shulamith H. SHAFER Attorney Docket Number AMBX-0028.00US

12	BARTON, DHR et al., "Synthesis of Novel alpha-Amino-Acids and Derivatives Using Radical Chemistry: Synthesis of L- and D-alpha-Amino-Adipic Acids, L-alpha-aminopimelic Acid and Appropriate Unsaturated Derivatives," Tetrahedron (1987) 43:4297-4308	
13	BASS, S et al., "Mutant Trp repressors with new DNA-binding specificities," Science (1988) 242:240-245	
14	BATZER, MA et al., "Enhanced evolutionary PCR using oligonucleotides with inosine at the 3'-terminus," Nucleic Acids Res. 1991 Sep 25;19(18):5081	
15	BEACH, D et al., "Functionally homologous cell cycle control genes in budding and fission yeast," Nature 1982 Dec; 300:706 – 709	
16	BEAUCHAMP, CO et al., "A new procedure for the synthesis of polyethylene glycol-protein adducts; effects on function, receptor recognition, and clearance of superoxide dismutase, lactoferrin, and alpha 2-macroglobulin," Anal Biochem. 1983 May;131(1):25-33	
17	BERNSTEIN, FC, et al. "The protein data bank: a computer-based archival file for macromolecular structures," J. Mol. Biol. 1977; 112:535-542	
18	BOISSEL, JP et al., "Erythropoietin structure-function relationships. Mutant proteins that test a model of tertiary structure," J Biol Chem. 1993 Jul 25;268(21):15983-93	
19	BOLES, JO et al. "Bio-incorporation of telluromethionine into buried residues of dihydrofolate reductase," Nat Struct Biol. 1994 May;1(5):283-4	
20	BOTSTEIN, D et D Shortle, "Strategies and applications of in vitro mutagenesis," Science. 1985 Sep 20;229 (4719):1193-201	
21	BRUNNER, J. "New photolabeling and crosslinking methods," Annu Rev Biochem. 1993;62:483-514	
22	BUCHNER, J. et al., "A method for increasing the yield of properly folded recombinant fusion proteins: Single-chain immunotoxins from renaturation of bacterial inclusion bodies," Anal. Biochem. 1992; 205(2): 263-270	

ALL REFERENCES CONSIDERED EXCEPPIONIPERELTINED THROUGH 73/5.S./ Filing Date 2006-07-26 **INFORMATION DISCLOSURE** First Named Inventor Ho Sung CHO Art Unit 1647 (Not for submission under 37 CFR 1.99) **Examiner Name** Shulamith H. SHAFER

Attorney Docket Number

AMBX-0028.00US

STATEMENT BY APPLICANT

23	BÜCKMANN et al. "Functionalization of Poly(ethylene glycol) and Monomethoxy-Poly(ethylene glycol), "Makromol. Chem. 1981;182:1379-84	
24	BUDISA, N et al. "High-level biosynthetic substitution of methionine in proteins by its analogs 2-aminohexanoic acid, selenomethionine, telluromethionine and ethionine in Escherichia coli," Eur J Biochem. 1995 Jun 1;230(2):788-96	
25	BUDISA, N et al., "Bioincorporation of telluromethionine into proteins: a promising new approach for X-ray structure analysis of proteins," J Mol Biol. 1997 Jul 25;270(4):616-23	
26	BUDISA, N et al., "Toward the experimental codon reassignment in vivo: protein building with an expanded amino acid repertoire," FASEB J. 1999 Jan;13(1):41-51	
27	CAI, X-Y et al., "Expression, Purification, and Characterization of an Activated Cytokine-Suppressive Anti-inflammatory Drug-Binding Protein 2 (CSBP2) Kinase from Baculovirus-Infected Insect Cells," Protein Expression and Purification 1997; 10(2):263-74	
28	CARBONELL, LF et al., "Baculovirus-mediated expression of bacterial genes in dipteran and mammalian cells," J Virol. 1985 Oct;56(1):153-60	
29	CARRASCO, M. and R. Brown, "A Versatile Set of Aminooxy Amino Acids for the Synthesis of Neoglycopeptides," J. Org. Chem. (2003); 68(23): 8853-8858	
30	CARTER, P. "Site-directed mutagenesis," Biochem J. 1986 Jul 1; 237(1):1-7	
31	CARTER, P et al. "Improved oligonucleotide site-directed mutagenesis using M13 vectors" Nucleic Acids Res. 1985 Jun 25;13(12):4431-43	
32	CARTER, P. "Improved oligonucleotide-directed mutagenesis using M13 vectors" Methods Enzymol. 1987;154:382-403	
33	CHAIKEN, IM. "Semisynthetic peptides and proteins," CRC Crit Rev Biochem. 1981;11(3):255-301	

Application Number 10587371 EXCEPT WHERE LINED THROUGH /S.S./ Filing Date 2006-07-26 ALL REFERENCES CONSIDERED **INFORMATION DISCLOSURE** First Named Inventor Ho Sung CHO STATEMENT BY APPLICANT Art Unit 1647 **Examiner Name** Shulamith H. SHAFER

AMBX-0028.00US

Attorney Docket Number

(Not for	submission	under	37	CFR	1.	.99)
(Not for	submission	under	37	CFR	1	.99	

34	CHIN, JW et al., "Addition of p-azido-L-phenylalanine to the genetic code of E. coli," J Am Chem Soc. 2002 Aug 7;124 (31):9026-7	
35	CHIN, JW et al., "Addition of a photocrosslinking amino acid to the genetic code of Escherichia coli," Proc Natl Acad Sci U S A. 2002 Aug 20;99(17):11020-4. Epub 2002 Aug 1	
36	CHIN, JW et al., "An expanded eukaryotic genetic code," Science. 2003 Aug 15;301(5635):964-7	
37	CHIN, JW & P. G. Schultz, "In vivo photocrosslinking with unnatural amino acid mutagenesis," Chembiochem. 2002 Nov 4; 3(11): 1135-7	
38	CHRISTIE, B.D. & Rapoport, H. "Synthesis of Optically Pure Pipecolates from L-Asparagine. Application to the Total Synthesis of (+)-Apovincamine through Amino Acid Decarbonylation and Iminium Ion Cyclization," J. Org. Chem. 1985;50(8):1239-1246	
39	CLARK, R et al., "Long-acting growth hormones produced by conjugation with polyethylene glycol," J Biol Chem. 1996 Sep 6;271(36):21969-77	
40	COREY, D.R., Schultz, P.G. "Generation of a hybrid sequence-specific single-stranded deoxyribonuclease," Science 1987; 238(4832):1401-1403	
41	CORNISH, VW, et al., "Site-Specific Protein Modification Using a Ketone Handle," J. Am. Chem. Soc. 1996; 118 (34):8150-8151	
42	CORNISH, VW et al., "Probing Protein Structure and Function with an Expanded Genetic Code,"Angew Chem Int Ed Engl,1995;34(6):621-33	
43	CRAIG, J.C. et al. "Absolute Configuration of the Enantiomers of 7-Chloro-4 [[4-(diethylamino)-1-methylbutyl]amino] quinoline (Chloroquine)," J. Org. Chem. 1988; 53(6):1167-1170	
44	CREGG, JM et al., "Pichia pastoris as a host system for transformations," Mol Cell Biol. 1985 Dec;5(12):3376-85	

ALLD	EEED	ENCES CONSIDERED EXCE	Application Number		10587371 H. /S.S./		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		Filing Date	100a	2006-07-26			
		First Named Inventor	Ho S	ung CHO			
		Art Unit		1647			
(NOT IOF	Subili	iission under 37 CFK 1.33)	Examiner Name	Shula	amith H. SHAFER		
			Attorney Docket Numb	er	AMBX-0028.00US		
			1				
	45	CRICK, FHC, et al. "General natur	re of the genetic code for pr	oteins,	" Nature. 1961 Dec 30;192:1227-32		
	46	DALE et al., Oligonucleotide-directed random mutagenesis using the phosphorothioate method, Methods Mol. Biol.1996;57:369-374					
	47	DAS, S et al., "Transformation of h	Kluyveromyces fragilis," J B	acterio	I. 1984 Jun;158(3):1165-7		
	48	DAWSON, P. E. and S. B. H. Kent 69:923-60	t, "Synthesis of native prote	ins by	chemical ligation," Annu. Rev. Biochem. 2000;		
	49	DE BOER, HA et al., "The tac pror U S A. 1983 Jan;80(1):21-5	moter: a functional hybrid d	erived 1	from the trp and lac promoters," Proc Natl Acad Sci		

If you wish	n to ad	dd additional non-patent literature document citation information please click the Add button	Add	

EXAMINER SIGNATURE

DE LOUVENCOURT, L et al., "Transformation of Kluyveromyces lactis by killer plasmid DNA," J Bacteriol. 1983

Examiner Signature /Shulamith Shafer/ Date Considered 11/22/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

50

May;154(2):737-42

¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.